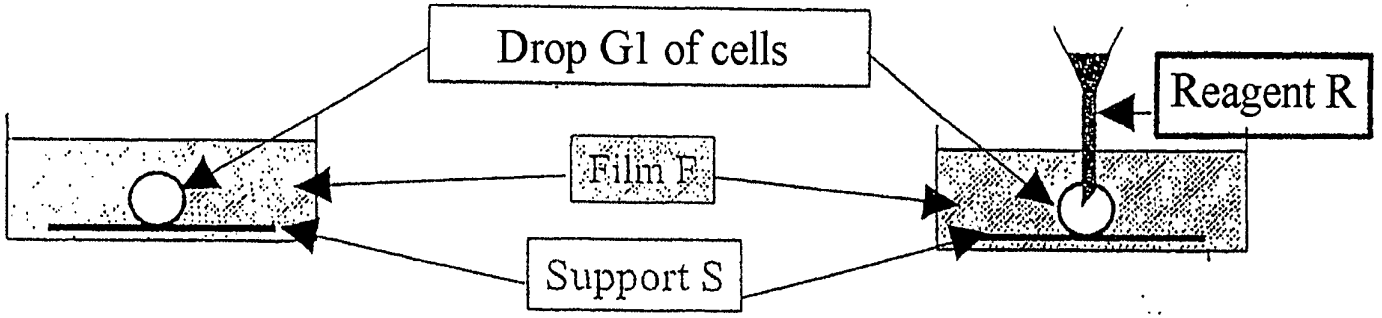
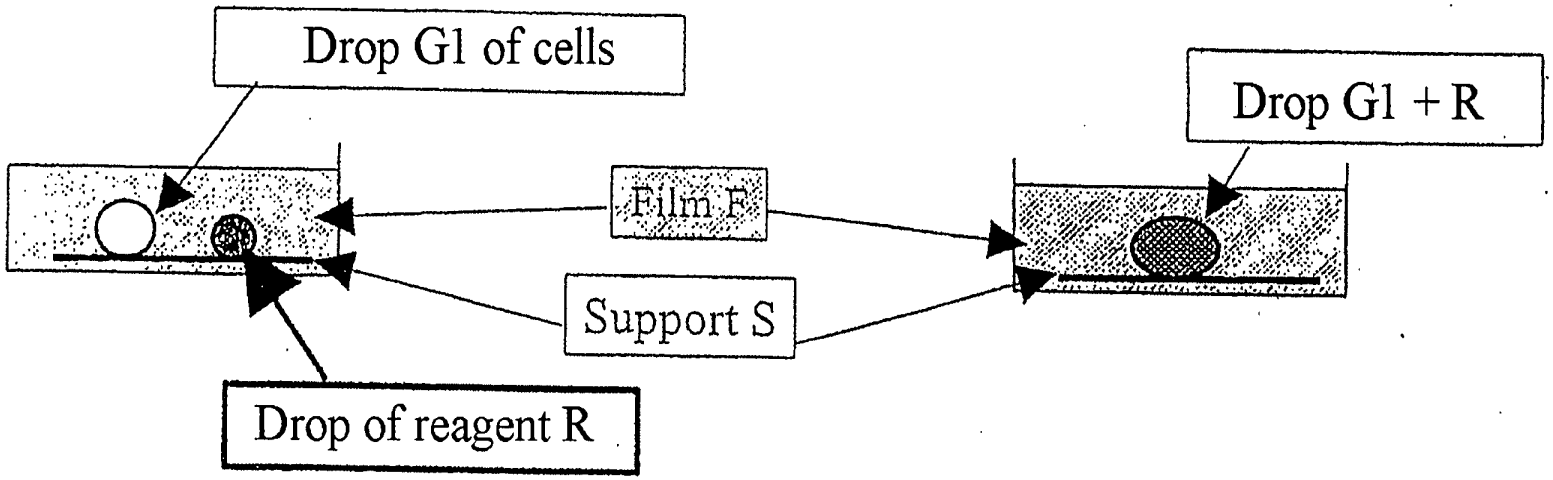
Figure 1: Transfection by injection of drops : R into G1



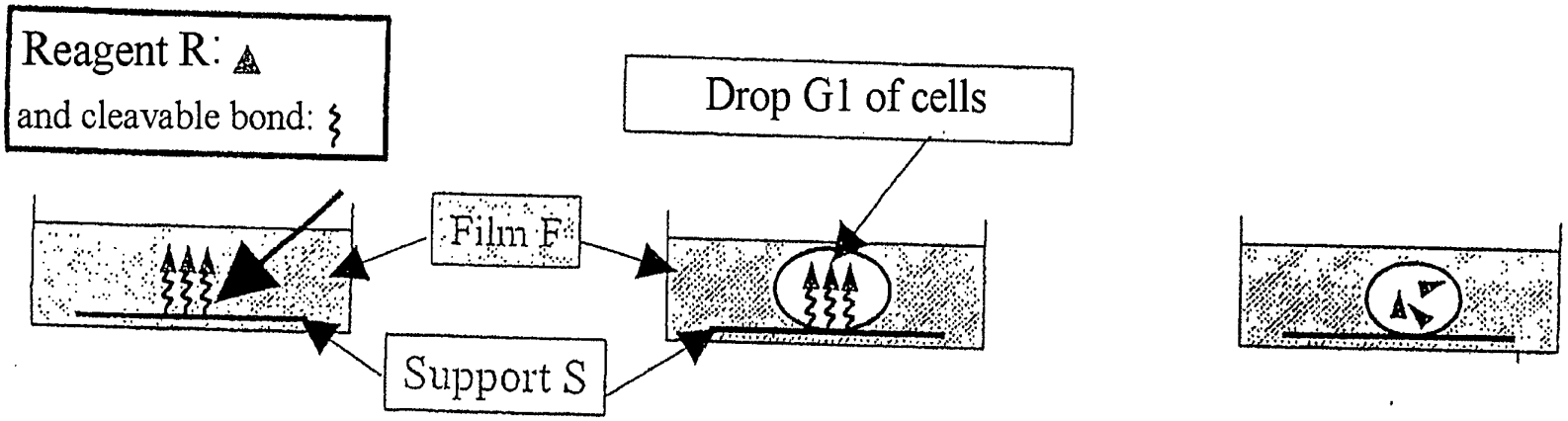
A. Drop G1 on support S → B. Injection of reagent R into G1

Figure 2: Transfection by fusion of drops: G1 + R



A. Drops G1 and R on support S → B. Fusion of G1 with R

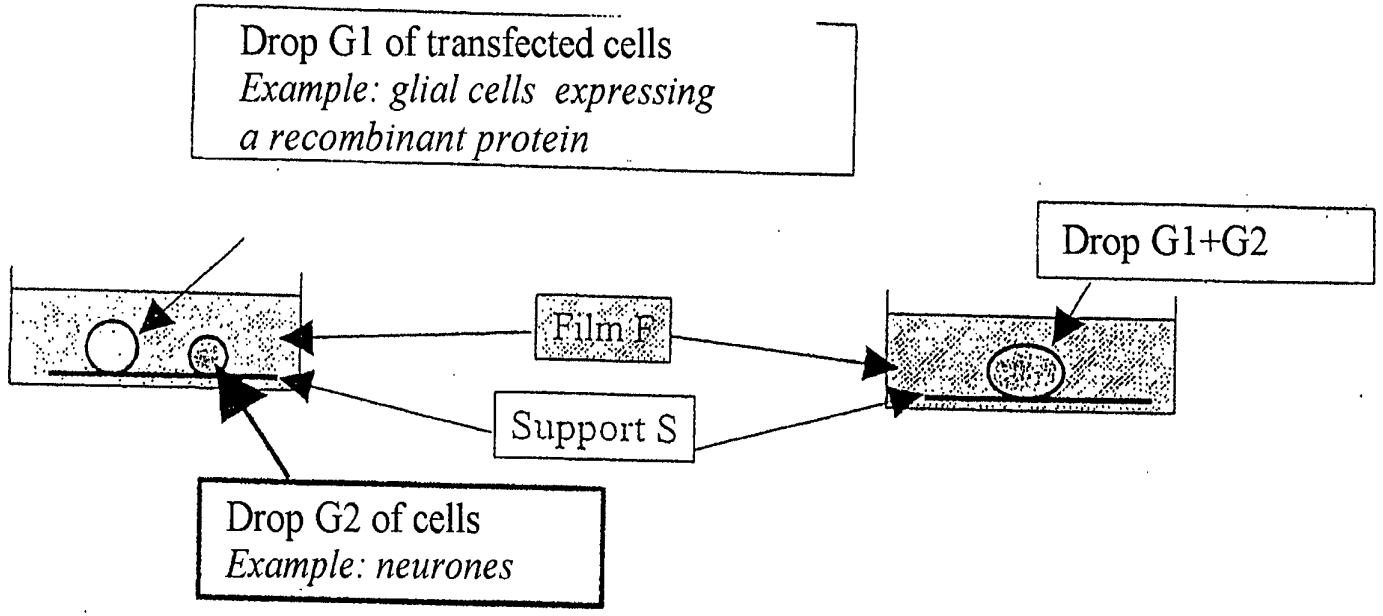
Figure 3: Transfection in drop G1 by detachment of reagent R



A. Reagent R attached to the support → B. Drop G1 of cells on reagent R attached to the support → C. Detachment of R in drop G1

Figure 4: Fusion of cell drops G1+G2 after transfection

Example of the expression of a recombinant protein in a suspension of glial cells and of the activation of a suspension of neurones



A. Drop G1 of transfected cells and drop G2 of cells on support S → B. Fusion of G1 with G2

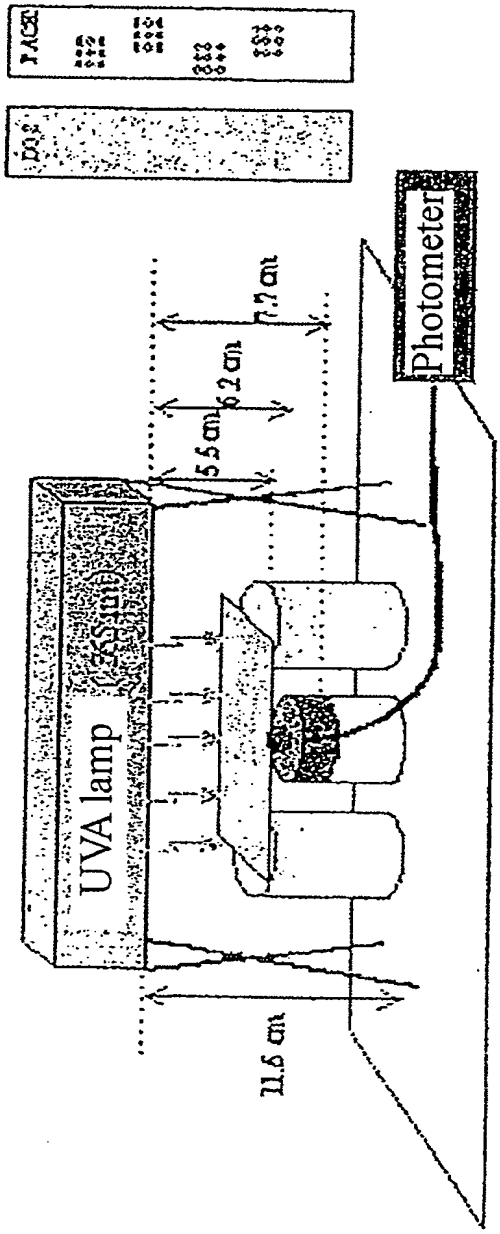


Figure 5: Photocleavage device

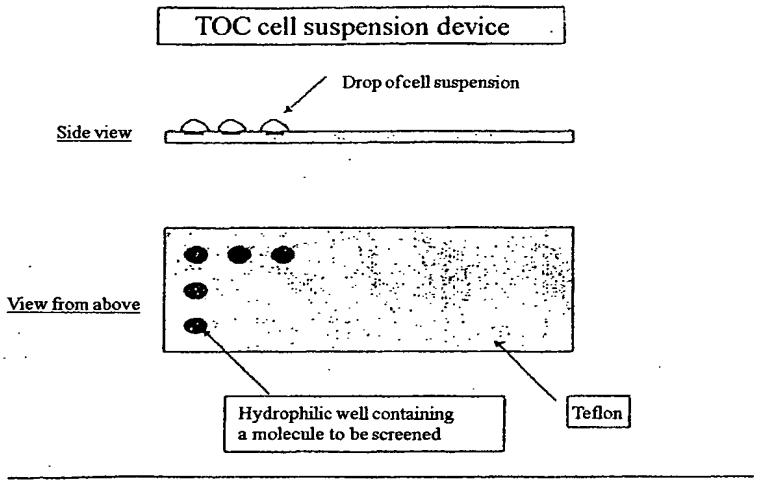


Figure 6

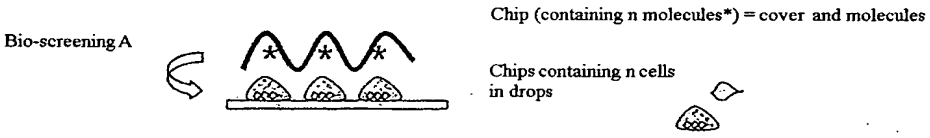
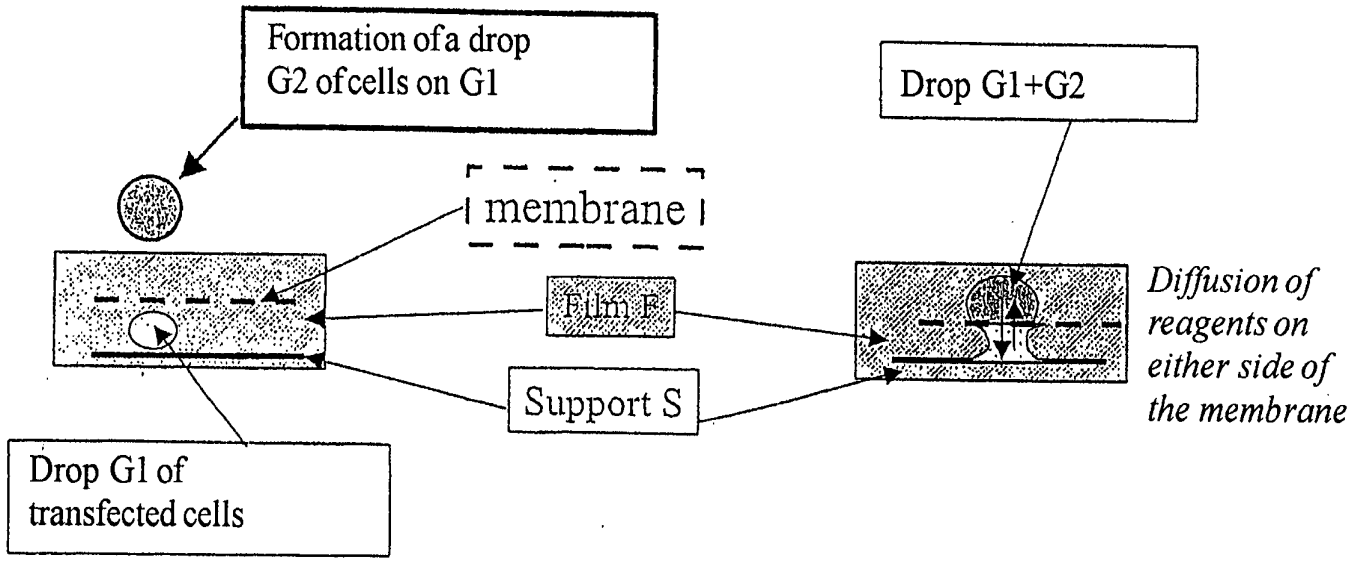


Figure 7

Figure 8: Membrane between two cell drops G1 and G2



A. Membrane deposited on drop G1 of cells and formation of a drop G2 of cells

→ B. Fusion of G1 with G2

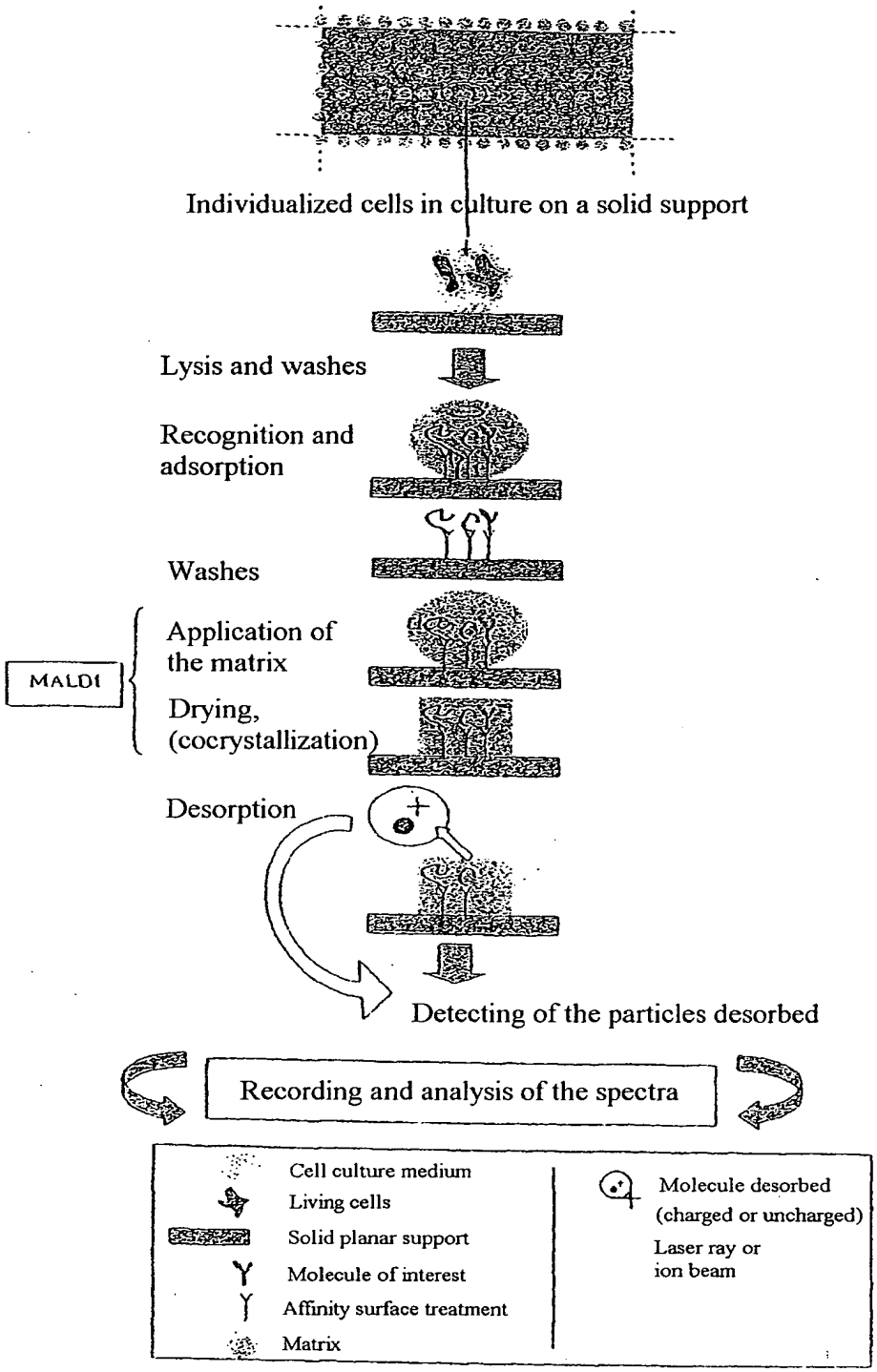


FIGURE 9

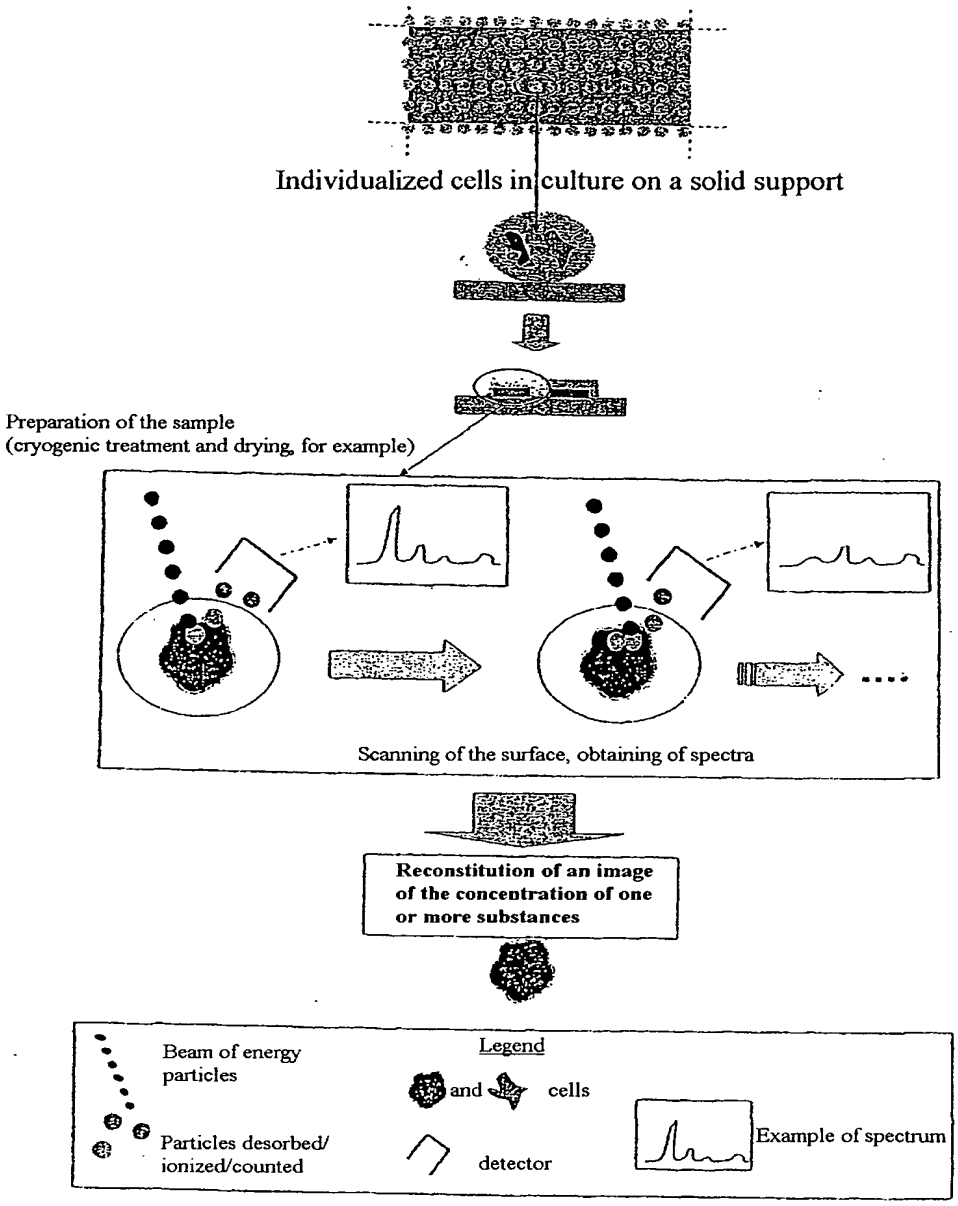


FIGURE 10

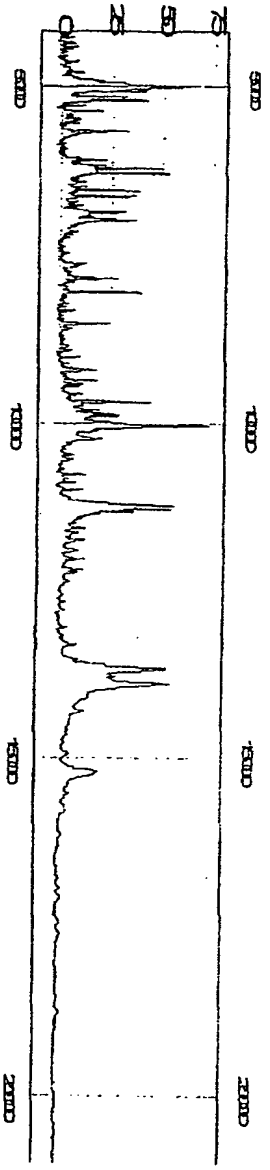


Figure 11: Example of a spectrum obtained without CDDP and without TNF. Along the x-axis is the mass to charge ratio in Daltons (Da); along the y-axis is the signal intensity (100 corresponds to the saturation of the detector).

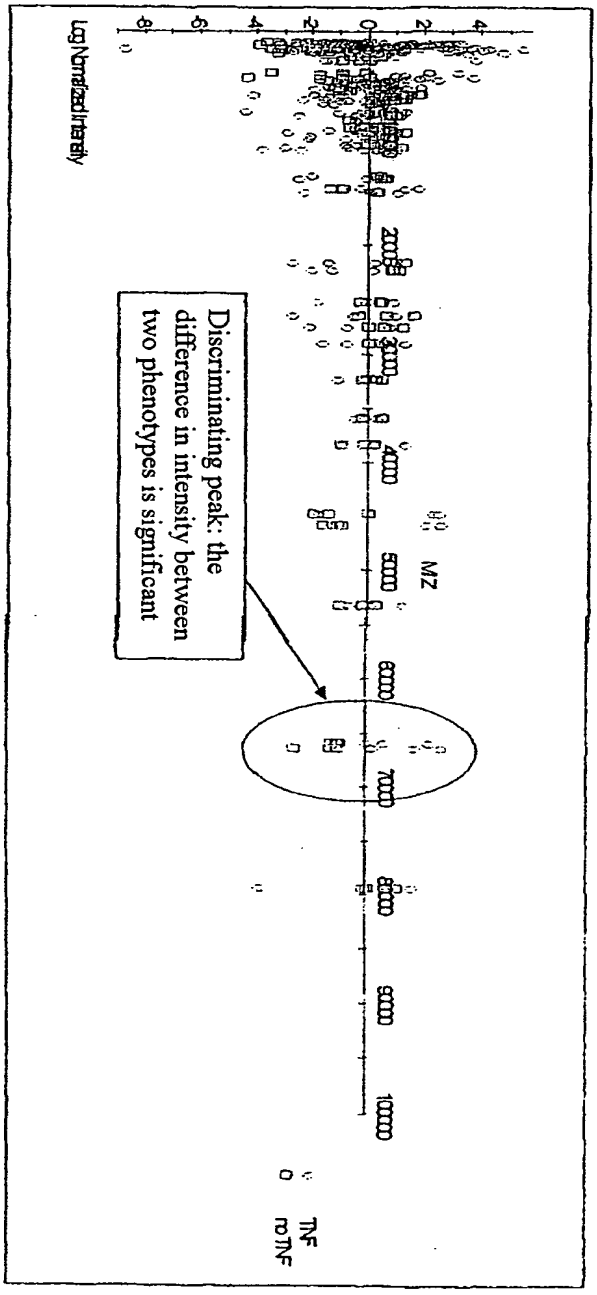


Figure 12: Representation of the differences between the spectra of the two phenotypes without TNF and with TNF

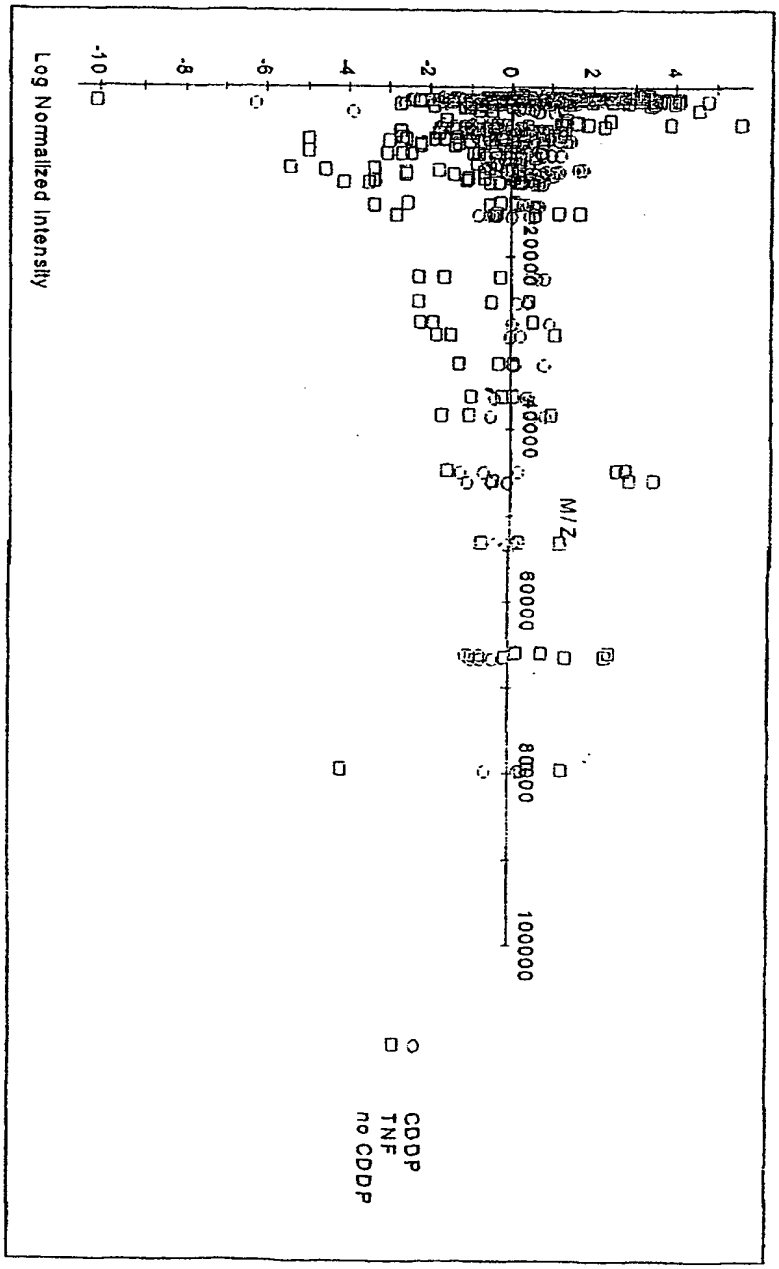


Figure 13: Representation of the differences between the spectra of the three phenotypes without TNF or CDDP, with TNF and with CDDP